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	EU DIC DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
APPLICATION NO.	FILING DATE		K06-135817M/TBS	3189	
09/891,524	06/27/2001	Manabu Taniguchi	100 133017112 0 = 1		
2125	590 09/12/2002		EXAMINER		
	URTHOUSE ROAD		LE, DANG D		
SUITE 200 VIENNA, VA	22182-3817		ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 09/12/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

4		Amelia di an Ni		Applicant(s)				
		Application No	u.					
Office Action Summary		09/891,524		TANIGUCHI ET AL.				
		Examiner		Art Unit				
		Dang D Le		2834	000			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE M - Extens after S - If the p - If NO - Failure - Any re	PRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute apply received by the Office later than three months after the mailing dispatent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, he ly within the statutory will apply and will exp	owever, may a reply be tin minimum of thirty (30) day ire SIX (6) MONTHS from on to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.			
1)[Responsive to communication(s) filed on	·						
2a) <u></u> ☐	71113 4001011 10 1 1113 1-1	his action is nor						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
-	Claim(s) 1 and 2 is/are pending in the applica	ation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
The state of the s	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.							
·	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>27 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
	under 35 U.S.C. §§ 119 and 120		05110000440	(a) (d) a= (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
*	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	a) The translation of the foreign language Acknowledgment is made of a claim for dome	provisional app	lication has been r	eceived.				
Attachme								
1) No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No(s	s) <u>6</u> .	· —	ary (PTO-413) Paper No al Patent Application (PT				

Art Unit: 2834

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoneta et al. in view of Kawashima.

Regarding claim 1, Yoneta et al. show a magnetic bearing control device (Figure 4) for controlling a magnetic bearing for supporting a rotor in non-contact manner, and a motor for rotating said rotor and capable of generating an electric power with the rotation of said rotor, comprising:

Art Unit: 2834

- A magnetic bearing drive controller (9) which drives and controls said magnetic bearing;
- A motor drive circuit including an inverter (Figure 4) for driving said motor, a regenerative circuit (10) for supplying a regenerative electric power generated by said motor to said magnetic bearing drive controller, and a switch portion for selectively switching the connection of said inverter and said regenerative circuit to said motor;
- An inverter controller (4) which controls said inverter; and
- Connect the regenerative circuit to said motor.

Yoneta et al. do not show:

- An over-speed detection circuit for detecting a number of revolutions of said rotor and outputting an over-speed detection signal when the detected number of revolutions is greater than or equal to a preset number of revolutions;
- Wherein said motor drive circuit performs a switching operation of the switch
 portion to separate the inverter from said motor when the over-speed
 detection signal from said over-speed detection circuit is input.

For the purpose of controlling the motor with a magnetic bearing, Kawashima shows:

- An over-speed detection circuit (59, Kawashima) for detecting a number of revolutions of said rotor and outputting an over-speed detection signal when

Art Unit: 2834

the detected number of revolutions is greater than or equal to a preset number of revolutions;

- Wherein said motor drive circuit (51) performs a switching operation of the switch portion to separate the inverter from said motor when the over-speed detection signal from said over-speed detection circuit is input.

Since Yoneta et al. and Kawashima are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include an over-speed detection circuit for detecting a number of revolutions of said rotor and to make the motor drive circuit perform a switching operation of the switch portion to separate the inverter from said motor when the over-speed detection signal from said over-speed detection circuit is input as taught by Kawashima for the purpose discussed above.

Regarding claim 2,it is noted that Yoneta et al. also show a power failure detection circuit for detecting a power failure in order to connect the regenerative circuit to the motor.

Information on How to Contact USPTO

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (703) 305-0156. The examiner can normally be reached on Monday through Friday.

Art Unit: 2834

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Dany & C

DDL September 7, 2002

76